

SEMINOLE COUNTY GOVERNMENT AGENDA MEMORANDUM

SUBJECT: Change Order #3 to CC-0751A-06/TLR - CR46A Phase III, CR15 to Old Lake Mary Road

DEPARTMENT: Administrative Services

DIVISION: Purchasing and Contracts

AUTHORIZED BY: Frank Raymond

CONTACT: Jacqui Perry

EXT: 7114

MOTION/RECOMMENDATION:

Approve Change Order #3 to CC-0751A-06/TLR with Gibbs & Register, Inc of Winter Garden, Florida, in the amount of \$272,228.00, to provide for the modification to drainage structure S-209, Powder Coat Aluminum Handrail, drainage structure S-101A and quantity overruns and underruns due to actual field measurements and add thirteen days to completion, which extends the final completion date to March 27, 2008.

County-wide

Ray Hooper

BACKGROUND:

CC-0751A-06/TLR provides for all labor, materials, equipment, transportation, coordination and incidentals necessary for the construction of a four lane urban roadway section approximately 1.025 miles in length along an existing 2-lane corridor of CR 46A (HE Thomas Jr. Parkway), from Upsala Road to Old Lake Mary Road.

Change Order #3 to CC-0751A-06/TLR will provide for the modification to drainage structure S-209, Powder Coat Aluminum Handrail, drainage structure S-101A and quantity over-runs and under-runs due to actual field measurements and add thirteen days to final completion, which extends the final completion date to March 27, 2008.

The following is a summary of the cost of the Agreement:

Original Agreement Sum:	\$7,108,000.00
Change Order#1:	42,842.00
Change Order#2:	211,515.00
Change Order #3:	<u>272,228.00</u>
Revised Agreement Total:	\$7,634,585.00

This is a budgeted project and funds are available in Engineering-Roads (Account #077515.560670, CIP#00011401) and Arterial Road Projects (Account #077521.560670, CIP#00011401).

STAFF RECOMMENDATION:

Staff recommends that the Board approve Change Order #3 to CC-0751A-06/TLR with Gibbs & Register, Inc of Winter Garden, Florida, in the amount of \$272,228.00, to provide for the modification to drainage structure S-209, Powder Coat Aluminum Handrail, drainage structure S-101A and quantity overruns and underruns due to actual field measurements and add thirteen days to completion, which extends the final completion date to March 27, 2008.

ATTACHMENTS:

1. CC-0751-06/TLR- CO#3 to Gibbs and Register Inc.

Additionally Reviewed By:

☒ County Attorney Review (Ann Colby)

SEMINOLE COUNTY, FLORIDA
CHANGE ORDER FOR CONSTRUCTION PROJECTS



Engineering Division

PURCHASING DIVISION
(407) 321-1130

1101 E. First Street
Sanford, FL 32771

CONTRACT NO: CC-0751A-06/TLR INITIATION DATE: 01-23-2008 ORIGINAL CONTRACT DATE: 11-07-2006
CHANGE ORDER NO: 03 ACCOUNT NO: _____ ARCH/ENG PROJECT:# _____
CONTRACT FOR: CR-46A Phase III, CR-15 Country Club Rd to Old Lake Mary Rd

YOU ARE REQUESTED TO MAKE THE FOLLOWING CHANGE(S) IN THIS CONTRACT:

See Attachment A.

REASON FOR CHANGE(S):

See Attachment A

ORIGINAL CONTRACT SUM:	\$	<u>7,108,000.00</u>
CONTRACT SUM PRIOR TO THIS CHANGE ORDER	\$	<u>7,362,357.00</u>
CHANGE ORDER (increased) (decreased) (unchanged)	\$	<u>272,228.00</u>
NEW CONTRACT SUM INCLUDING THIS CHANGE ORDER WILL BE	\$	<u>7,634,585.00</u>
CONTRACT TIME WILL BE (increased) (decreased) (unchanged) BY (13) CALENDAR DAYS		<u>13 days</u>
FINAL COMPLETION DATE THROUGH THIS CHANGE ORDER		<u>March 27, 2008</u>

WAIVER This Change Order constitutes full and mutual accord and satisfaction for the adjustment of Contract Price and Time as a result of increases or decreases in costs and time of performance caused directly and indirectly from the change. Acceptance of this Waiver constitutes an agreement between COUNTY and CONTRACTOR that the Change Order represents an equitable adjustment to the Agreement and that CONTRACTOR shall waive all rights to file a Contract Claim or claim of any nature on this Change Order. Execution of this Change Order shall constitute CONTRACTOR's complete acceptance and satisfaction that it is entitled to no more costs or time (direct, indirect, impact, etc.) pursuant to this Change Order.

ACKNOWLEDGEMENTS The aforementioned change, and work affected thereby, is subject to all provisions of the original Agreement not specifically changed by this Change Order, and it is expressly understood and agreed that the approval of the Change Order shall have no effect on the original agreement other than matters expressly provided herein.

NOT VALID UNTIL SIGNED BY OWNER, ARCHITECT/ENGINEER AND CONTRACTOR

Public Works / Engineering
DEPT/DIV _____
By: [Signature]
Date: 2/2/08

HDR - Construction Control Corp.
ARCHITECT/ENGINEER
104 Forrest Drive
Sanford, FL 32773-4713
Address _____
By: [Signature]
Date: 1/29/08

GIBBS & REGISTER, INC.
CONTRACTOR (Seal)
232 South Dillard Street
Winter Garden, FL 34787
address _____
By: [Signature]
Date: 1/25/08

Approved as to form & legal sufficiency: _____

County Attorney

Date

SEMINOLE COUNTY BOARD
OF COUNTY COMMISSIONERS

ATTEST:

Brenda Carey,

Chairman

MARYANNE MORSE, Clerk to the Board of County
Commissioners in and for Seminole County, Florida

BCC APPROVAL DATE: _____

DATE: _____

Attachment A.

YOU ARE REQUESTED TO MAKE THE FOLLOWING CHANGE(S) IN THIS CONTRACT:

- A. The proposed drainage structure (S-209) on Old Lake Mary Road station 109+46, 13.25-ft. left is being changed. The drainage structure S-209 which is a Type P-6 curb inlet will need to be modified to a Type V gutter inlet. Also the existing ring and cover on storm water manhole C-29 on the SW corner of CR-46A and Forrest Drive needed to be lowered to match the finish grade at that area.
- B. Seminole County has requested that all of the aluminum handrail (1,210 LF) have a powder coat finish. The color will be Forest Green, Product No. PSP4543J.
- C. Errors to the pay item quantities of various roadway pay items has led to substantial overruns and underruns which are as follows:

1. Pay Item #430-171-138 Pipe Culvert RCP 36" – On the summary of drainage structure sheet 14 the quantity of 36-inch RCP for structures S-215 and S-215A was incorrectly placed in the column for 24-inch RCP and the 36-inch RCP for S-216 was incorrectly placed in the column for 30-inch RCP. The installation of the 36-inch RCP in complete at this time. Due to the above there is an overrun of 205.0 LF of 36-inch RCP. Pay Item #430-171-138 will be increased by 205.0 LF at the contract unit price of \$140.00 per LF for an increase to the original contract of \$28,700.00. This is the final quantity adjustment for this pay item.
2. Pay Item #430-171-129 Pipe Culvert RCP 24" – There will be an underrun to the final quantity of the 24" RCP due to the pipe quantities for drainage structures S-215 and S-215A being included in the 24" RCP column instead of the 36" RCP column. See summary of drainage structures plan sheet #14 and plan sheet #29 and #122. Due to this error and final measured lengths of 24" RCP installed, there will be an underrun of 65.0 LF. Pay Item #430-171-129 will be decreased by 65.0 LF at the contract unit price of \$87.00 per LF for a decrease to the original contract of <\$5,655.00>. This is the final quantity adjustment for this pay item.
3. Pay Item #430-171-133 Pipe Culvert RCP 30" – There will be an underrun to the final quantity of the 30" RCP due to the pipe quantities for drainage structure S-216 being included in the 30" RCP column instead of the 36" RCP column. See summary of drainage structures plan sheet #14 and plan sheet #29. Due to this error and the final measured length of the 30" RCP installed there will be an underrun to pay item #430-177-129 of 67.0 LF. Pay Item #430-171-133 will be decreased by 67.0 LF at the contract unit price of \$115.00 per LF for a decrease to the original contract of <\$7,705.00>. This is the final quantity adjustment for this pay item.
4. Pay Item #160-4 Type "B" Stabilization (12") – The 12" of Type "B" Stabilization (LBR 40) for the maintenance berms in Ponds 1 & 2 was not included in the bid pay item quantity (see comp book and plan sheets 121 & 122 for pond berms). Total overrun for Ponds 1 & 2 is 3,101.08 SY. Also six areas in the Rt. and Lt. roadway were omitted from the bid pay item quantity. The areas are as follows:

1. Lt. roadway station 166+00.37 to 168+60, $\frac{259.63' \times 26'}{9} = 750.04 \text{ SY}$
2. Lt. roadway station 177+45.50 to 180+05.50, $\frac{260' \times 26'}{9} = 751.11 \text{ SY}$
3. Lt. roadway station 177+45.50 to 179+55.50, $\frac{210' \times 12'}{9} = 280.00 \text{ SY}$
4. Lt. roadway station 187+18 to 189+53, $\frac{235' \times 26'}{9} = 678.90 \text{ SY}$
5. Rt. roadway station 176+19 to 177+45, $\frac{126' \times 26'}{9} = 364.00 \text{ SY}$
6. Rt. roadway station 185+91.50 to 187+18, $\frac{126.50' \times 26'}{9} = 365.44 \text{ SY}$

Due to the above there is an overrun of stabilization at Ponds 1 & 2 of 3,101.08 SY and an overrun of stabilization for the roadway of 3,189.49 SY – total overrun 6,290.57 SY. Pay Item #160-4 will be increased by 6,290.57 SY at the contract unit price of \$9.00 per SY for an increase to the original contract of \$56,615.13.

5. Pay Item #285-709 Optional Base Group 09 – missing quantities for Type B Stabilization (roadway) reflects the same missing quantities for this limerock base item. Pay Item 285-709 will be increased by 3,189.49 SY times contract unit price of \$26.00 per FY for an increase to the original contract of \$82,926.74.
 6. Pay Item #331-72-24 Type S Asphalt 2½ - missing quantities on Optional Base Group 09. Reflects the same missing quantities for this asphalt item. Pay item 331-72-24 will be increased by 3,189.49 SY times the contract unit price of \$16.00 per SY for an increase to the original contract of \$51,031.84.
 7. Pay Item #337-7-3 Asphaltic Concrete Friction Course Rubber (1") – missing quantities on Optional Base Group 09. Reflects the same missing quantities for this asphalt friction course item. Pay item #337-7-3 will be increased by 3,189.49 SY times the contract unit price of \$10.00 per SY for an increase to the original contract of \$31,894.90.
- D. A new drainage structure will need to be installed (S-101A) behind existing structure S-101 at station 19+05 Lt. on Forrest Drive the new structure DBI Type "C". Install 6-ft. of 18-in. RCP between structures S-101 and S-101A at a flow line of 47.50 Ft. Remove existing F-curb crossing ditch at station 18+40 Lt. Modify existing F-curb at station 18+40 Lt. to a flared end. Grade new ditch from station 18+00 to 19+20.
- E. The Contractor elected to take the automatic time suspension for vacation time for his employees. See Section 6.42 Contractor's Vacation in the Seminole County General Conditions. Two periods of time are established for automatic time suspensions. These periods are Thanksgiving which includes Thanksgiving Day and the following Friday, Saturday and Sunday and Christmas which includes December 24th through January 1st, for a total of thirteen (13) days.
- Thirteen (13) Contract Days will be added to the original contract time of 360 days for substantial completion, for a new time of 373 contract days for substantial completion and 403 contract days for final completion.

REASON FOR CHANGES:

- A. Drainage structure S-209 had to be modified to a Type V gutter inlet due to the location of the homeowners existing driveway. The existing driveway was not shown on the construction plans thereby causing this change. The existing ring and cover on Structure C-29 on the SW corner of CR-46A and Forrest Drive was lowered to prevent a trip hazard and damage to the maintenance mowers.

The cost to modify and adjust the two above drainage structures is \$1,545.00 with no additional contract time.

- B. The powder coat Forest Green color was added to the aluminum handrail to harmonize the project with the adjacent surroundings and make the handrail environmentally friendlier. The cost to powder coat the 1,210 LF of aluminum handrail is \$26,995.10 with no additional contract time.

- C. Errors to the pay item quantities of various roadway pay items has led to substantial overruns and underruns which are as follows:

1. Pay Item #430-171-138 Pipe Culvert RCP 36" – On the summary of drainage structure sheet 14 the quantity of 36-inch RCP for structures S-215 and S-215A was incorrectly placed in the column for 24-inch RCP and the 36-inch RCP for S-216 was incorrectly placed in the column for 30-inch RCP. The installation of the 36-inch RCP is complete at this time. Due to the above there is an overrun of 205.0 LF of 36-inch RCP. Pay Item #430-171-138 will be increased by 205.0 LF at the contract unit price of \$140.00 per LF for an increase to the original contract of \$28,700.00. This is the final quantity adjustment for this pay item.
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1. Lt. roadway station 166+00.37 to 168+60, $\frac{259.63' \times 26'}{9} = 750.04 \text{ SY}$

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- D. The additional drainage structure (S-101A) was needed to prevent flooding along Forrest Drive and property owners caused by the new construction on CR-46A and Forrest Drive.

The cost of the new drainage structure and modification will be \$5,899.29.

- E. The Contractor elected to take the automatic time suspension for vacation time for his employees. See Section 6.42 Contractor's Vacation in the Seminole County General Conditions. Two periods of time are established for automatic time suspensions. These periods are Thanksgiving which includes Thanksgiving Day and the following Friday, Saturday and Sunday and Christmas which includes December 24th through January 1st, for a total of thirteen (13) days.

Thirteen (13) contract days will be added to the original contract time of 360 days for substantial completion, for a new time of 373 contract days for substantial completion and 403 contract days for final completion.

Total cost of Change Order #03 items:

Item A	\$ 1,545.00
Item B	\$ 26,995.10
Item C-1	\$ 28,700.00
Item C-2	<\$ 5,655.00>
Item C-3	<\$ 7,705.00>
Item C-4	\$ 56,615.13
Item C-5	\$ 82,926.74
Item C-6	\$ 51,031.84
Item C-7	\$ 31,894.90
Item D	\$ 5,899.29
Total Cost	\$272,248.00

The above issues have been reviewed and accepted by HDR and approved by Seminole County Engineering for payment.

C. O. #3

ITEM A

ISSUE A C.O. #3



GIBBS & REGISTER, INC.

232 South Dillard Street
Winter Garden, Florida 34787
Telephone: (407) 654-6133
Facsimile: (407) 654-6134

August 14, 2007

Mr. Dean A. Hilborne
Sr. Project Administrator
HDR
104 Forrest Dr.
Sanford, FL 32773

Re: Seminole County: CC-0751A-06/TLR
CR46A Phase III, CR15 Country Club Rd. to Old Lake Mary Rd.
Subject: Storm Modifications Change Order (J07005.08)

Dear Mr. Hilborne:

I am in receipt of your letter dated August 1, 2007 requesting additional pricing for two storm drainage modifications on the above referenced project. G&R has completed our cost analysis of the proposed modification and is offering to complete this work for the lump sum amount of \$ 1,545.00. I have attached a detailed breakdown of all costs associated with this change order. Please review this information and respond accordingly.

If there are any questions or if additional information is required please feel free to contact me.

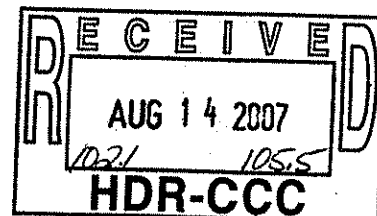
Sincerely,
Gibbs & Register, Inc.

John E. Rodriguez,
Project Manager

cc: J07005:29

price is acceptable
and 8/17/07 OK
10/16/07

~~10/16/07~~
~~10/15/07~~



C. O. #3

ITEM B

15562 B



Transmittal

Attention: John E. Rodriguez, Project Manager

Date: 16-Nov-07

Job No: CC-0751A-06/TLR

To: Gibbs & Register, Inc.

Phone: 407-324-8545

Regarding: CR-46A Phase III, CR 15 Country Club Rd to Old Lake Mary Rd

We are sending you:

☒ Attached☐ Under separate cover via _____ the following items☐ Shop drawings☐ Prints☐ Plans☐ Samples☐ Specifications☐ Copy of letter☐ Change Order☒ Other Submittal

Copies	Date	No.	Description
5		037A	Aluminum Handrail – Conforms as Noted

These are transmitted as checked below:

☐ For approval☐ Conforms as submitted☐ Resubmit _____ copies for approval☐ For your use☒ Conforms as noted☐ Submit _____ copies for distribution☐ As requested☐ Returned for corrections☐ Return _____ corrected prints☐ For review/comment☐ Rejected☐ For bids due _____☐ Prints returned after loan to us

Remarks Submittal #37A for the Aluminum Pedestrian Handrail (54" picket) is being approved as noted. The aluminum handrail will receive a powder coating. The color will be Forest Green Product #PSP4543J with a 2-year warranty. The additional cost to the contract for the powder coating will be \$22.31 per lineal foot of handrail, for a total lump sum price of \$26,995.10.

A change order will be prepared to compensate G&R for this additional cost.

Copy to William M. Glennon, P.E., Seminole Co.
File 102.10; 104.1; 105.5

Signed *Linda L. Ries, CPS*

FOR DEAN A. HILBORNE, PROJECT ADMINISTRATOR

If enclosures are not as noted, please notify us at once



GIBBS & REGISTER, INC.

232 South Dillard Street
Winter Garden, Florida 34787
Telephone: (407) 654-6133
Facsimile: (407) 654-6134

September 17, 2007

Mr. Dean A. Hilborne
Sr. Project Administrator
HDR
104 Forrest Dr.
Sanford, Florida 32773-4713

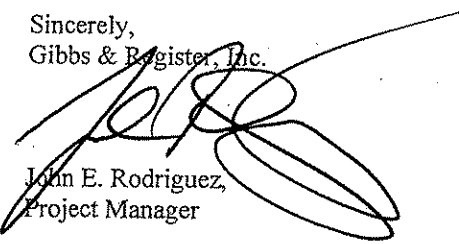
Re: Seminole County: CC-0751A-06/TLR
CR46A Phase III, CR15 Country Club Rd. to Old Lake Mary Rd.
Subject: **Aluminum Handrail Submittal**

Dear Mr. Hilborne:

The purpose of this letter is to provide HDR with the Aluminum Handrail Shop Drawing that we intend to utilized on the above referenced project. Please review this information and respond accordingly.

If you have any questions or concerns, feel free to contact me in the office.

Sincerely,
Gibbs & Register, Inc.


John E. Rodriguez,
Project Manager

Enclosures (8)

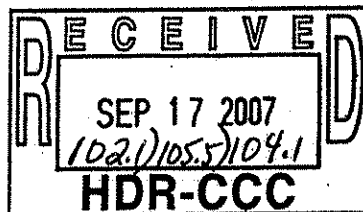
cc: J07005:45

A. CONFORMS AS SUBMITTED ☐
B. CONFORMS AS NOTED ☒
C. REVISE AND RESUBMIT ☐
D. REJECTED ☐
E. NO EXCEPTIONS ☐

This review is for general conformance with design concept only. Any deviation from plans or specifications not clearly noted by the contractor has not been reviewed. Review shall not constitute a complete check of detailed dimensions or count or serve to relieve the contractor of contractual responsibility for any error or deviation from contract requirements.

HDR CONSTRUCTION CONTROL CORPORATION

By WAK Date 11/16/07
Shop Drawing Reference No. 32-B
Project No. CC-0751A-06/TLR



Hilborne, Dean

From: Glennon, William [WGlennon@seminolecountyfl.gov]
Sent: Thursday, November 01, 2007 7:46 AM
To: Ries, Linda L.
Cc: Douglas, Steven; Hilborne, Dean
Subject: RE: CR-46A Phase III Powder Coat for Handrails

I have searched other projects for a similar change order and have been unable to locate one. It seems to me this price is reasonable to apply a durable finish to aluminum. As per our conversation, Dean is going to determine the warranty for this item. Hopefully, it will be at least 5 years and we will go with that price.

Bill

William M. Glennon, P.E.

Principal Engineer Construction Management

407-665-5654

From: Ries, Linda L. [mailto:Linda.Ries@hdrinc.com]
Sent: Tuesday, October 30, 2007 8:19 AM
To: Glennon, William
Cc: Douglas, Steven; Hilborne, Dean
Subject: CR-46A Phase III Powder Coat for Handrails

Good Morning,

My scanner isn't working so I'm transmitting a letter from HDR to Seminole County regarding the powder coat for handrails that has not been executed. The original is in your box and will be delivered to your office either today or tomorrow.

HDR is requesting your assistance on whether the price is in accordance with others submitted to Seminole County.

We look forward to hearing from you.

Linda L. Ries, CPS
OSC | CEI Office Manager
HDR ONE COMPANY | Many Solutions
HDR Construction Control Corporation
104 Forrest Drive | Sanford, FL | 32773-4713
Phone: 407.324.8035 | Fax: 407.324.8323 | Email: linda.ries@hdrinc.com

11/2/2007

October 24, 2007
Correspondence No. 06-07

Via hand delivery

Seminole County Engineering Division
Attn: William M. Glennon, P.E.
520 W Lake Mary Blvd
Sanford FL 32773-7424

RE: Seminole County CC-0751A-06/TLR
CR-46A Phase III Widening & Realignment
POWDER COAT FOR HANDRAILS

Dear Mr. Glennon:

I have received a cost proposal from Gibbs & Register for the powder coat finish for the aluminum handrail on the referenced project. The price per lineal foot of rail is \$22.31. There's 1,210 LF of handrail on the project, which calculates to \$26,995.10 cost increase to the contract.

I have no cost history on this item to determine a fair and equitable price. I've asked Steve to check prices on ongoing and/or completed Seminole County projects to give us an idea of the cost of this handrail.

I need help from you and Steve on whether this price will be acceptable.

Yours truly,

Dean A. Hilborne
Sr. Project Administrator

DAH:llr

c: Steve Douglas, Seminole Co Engineering
File 102.4; 105.5



GIBBS & REGISTER, INC.

232 South Dillard Street
Winter Garden, Florida 34787
Telephone: (407) 654-6133
Facsimile: (407) 654-6134

October 24, 2007

Mr. Dean A. Hilborne
Sr. Project Administrator
HDR
104 Forrest Dr.
Sanford, FL 32773

Re: Seminole County: CC-0751A-06/TLR
CR46A Phase III, CR15 Country Club Rd. to Old Lake Mary Rd.
Subject: Powder Coat Handrail Change Order (J07005.08)

Dear Mr. Hilborne:

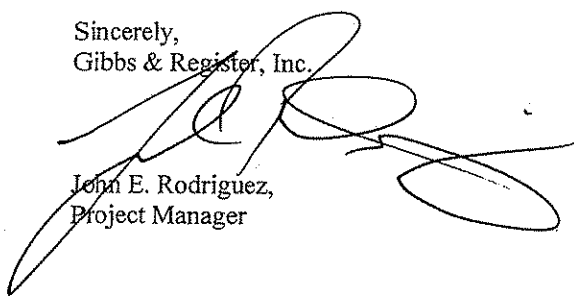
This letter is a follow up to the response we received on Submittal #37, in which you requested a proposal from Gibbs & Register, Inc. (G&R), along with a color sample for the aluminum handrail. G&R has attached four color samples of the proposed handrail for your review.

The additional pricing for the powder coat handrail will be an additional \$ 22.31 per lineal foot. Therefore our revised pricing for these items are as follows:

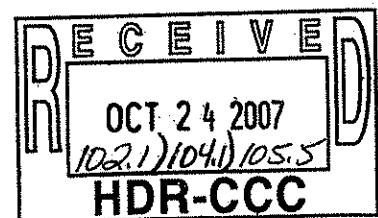
- 3 Line Aluminum Rail Sections \$ 57.31/lf
- 54" Picket Handrail \$ 82.31/lf

Please review this information and respond accordingly. If you have any questions, or if additional information is required, please feel free to contact me.

Sincerely,
Gibbs & Register, Inc.


John E. Rodriguez,
Project Manager

cc: J07005:29





GIBBS & REGISTER, INC.

232 South Dillard Street
Winter Garden, Florida 34787
Telephone: (407) 654-6133
Facsimile: (407) 654-6134

October 23, 2007

Mr. Dean A. Hilborne
Sr. Project Administrator
HDR
104 Forrest Dr.
Sanford, FL 32773

Re: Seminole County: CC-0751A-06/TLR
CR46A Phase III, CR15 Country Club Rd. to Old Lake Mary Rd.
Subject: Powder Coat Handrail Change Order (J07005.08)

Dear Mr. Hilborne:

This letter is a follow up to the response we received on Submittal #37, in which you requested a proposal from Gibbs & Register, Inc. (G&R), along with a color sample for the aluminum handrail. G&R has attached four color samples of the proposed handrail for your review.

The additional pricing for the powder coat handrail will be an additional \$ 24.44 per lineal foot. Therefore our revised pricing for these items are as follows:

- 3 Line Aluminum Rail Sections \$ 59.44/lf
- 54" Picket Handrail \$ 84.44/lf

Please review this information and respond accordingly. If you have any questions, or if additional information is required, please feel free to contact me.

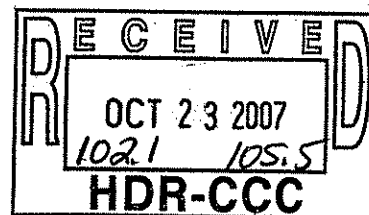
Sincerely,
Gibbs & Register, Inc.

John E. Rodriguez,
Project Manager

cc: J07005:29

Price Revised 10/22/07
JRH
10/24/07
Subcontractor cost \$21.25/lineal foot
Prime Contractor's markup 1.06 5%
Cost per LF 22.31

\$22.31 per LF X 1,210 of Pipe Hand Rail and
Pedestrian/Bicycle Railings (54") = \$26,995.10



ALMAR METALS, INC.

October 17, 2007

Gibbs & Register, Inc.
232 South Dillard Street
Winter Garden, FL 34787

REF: Seminole County: CC-0751A-06/TLR
CR46A Phase III, CR 15 Country Club Road to Old Lake Mary Rd

Subject: Powder Coating of Handrail

Almar Metals has included a sample color chip for the proposed powder coat color match to Federal Green 24108. I have sent 4 color chips. I will need to have 2 of the chips approved and sent back to our office. This powder coat powder can be to our applicator in 5-7 days after receipt of the approved color.

The price for the powder coat application to the rail system is \$21.25 per LF. Our contract calls for fabrication and installation of the following:

Powder Coat Prices:

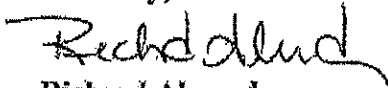
3 Line Aluminum Rail Sections: 27 LF @ \$21.25 Per LF \$ 573.75

54" Aluminum Picket Railing 1,183 LF @ \$21.25 per LF \$25,138.75

All rail types have been fabricated and we can proceed with powder coating for installation upon receipt of the executed change order and the approved color chip.

Please call our office if you have any questions.

Sincerely,



Richard Almond
Sales and Marketing

1735 ARREDONDO GRANT ROAD, DELEON SPRINGS, FLORIDA
PHONE# 386-734-3377 FAX# 386-734-0190

GIBBS & REGISTER, INC.

AL-MAR METALS, INC.

GENERAL NOTES / SPEC SHEET

☒ APPROVED
☐ APPROVED AS NOTED
☐ REJECTED / RESUBMIT

The General Contractor has reviewed the Shop Drawing, Sample or substitution submitted herewith and has determined and hereby certifies that in all respects this submittal is in full compliance and conformance with the contract specifications, drawings and all other contract requirements pertaining thereto.

Submittal by

Date

DATE: 9/10/2007
PROJECT #: J07005 (AMI #357)
CONTRACTOR: GIBBS & REGISTER, INC.

STRAIGHT RAIL
RADIUS RAIL

ALUMINUM	STAINLESS	STEEL	GALVANIZING	ANODIZING
6061-T6	N/A	N/A	N/A	N/A
6063-T6				

FINISH

POWDER COAT TO CUSTOMER COLOR - SINGLE RAL
AT ADDITIONAL CHARGE

HANDRAILS

54" PICKET INDEX 860

NEOPRENE

1/8" (DUROMETER HARDNESS 60 OR 70) PER SPECIFICATION 932

MATERIALS

ALUMINUM

2" PIPE *
1.5" PIPE * 6061-T6
3/4" PIPE * 6061-T6
2" x 4" x 1/4" TS * 6061-T6
1/4" PL 6061-T6
5/8" PL (ASTM B209) 6061-T6
* ASTM B221 & OR ASTM B429 6061-T6

STEEL

N/A

INCLUDED:

SHOP DRAWINGS
SHIPPING
ALL MATERIALS FOR FABRICATION
INSTALLATION
RAILING FASTENERS 3/4" X 11" (ASTM F1554 GRADE 36) W/SINGLE LOCKING
HEX NUTS (ASTM A563 OR ASTM A194) & WASHERS (ASTM F436), HOT-DIP GALVANIZED
EPOXY FDOT APPROVED, QPL #S937-0200
(S937 STRUCTURAL ADHESIVE BONDING COMPOUND TYPE HSHV)
PER SPEC 416 & 937

EXCLUDED:

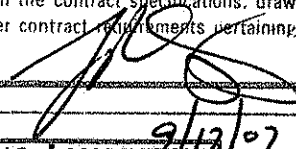
TRAFFIC CONTROL
SITE PREPERATION

NOTES:

ALL WELDING CONFORMS TO AWS D1.2 / 03

AL-MAR METALS, INC.
☒ APPROVED
☒ APPROVED AS NOTED
☐ REJECTED / RESUBMIT
GENERAL NOTES / SPEC SHEET

General Contractor has reviewed the Shop Drawing, Sample or substitution submitted herewith and has determined and hereby certifies that in all respects this submittal is in full compliance and conformance with the contract specifications, drawings and all other contract requirements pertaining thereto

Submitted by  9/12/07

DATE: 9/10/2007
 PROJECT #: J07005 (AMI #357)
 CONTRACTOR: GIBBS & REGISTER, INC.

ALUMINUM	STAINLESS	STEEL	GALVANIZING	ANODIZING
RAIL & POST 6061 RADIUS 6063	N/A	N/A	N/A	N/A

FINISH: POWDER COAT TO CUSTOMER COLOR - SINGLE RAL AT ADDITIONAL CHARGE

HANDRAILS: 3 LINE ALUMINUM INDEX 870 860 54" PICKET

NEOPRENE: 1/8" DUROMETER HARDNESS 60 TO 70

MATERIALS

ALUMINUM
 2" PIPE
 1.5" PIPE
 1/2" X 6" FB

STAINLESS
 N/A

STEEL
 N/A

INCLUDED:

SHOP DRAWINGS
 SHIPPING
 ALL MATERIALS FOR FABRICATION IN ACCORDANCE WITH ASTM B221 OR ASTM B429
 INSTALLATION
 RAILING FASTENERS 3/4" X 8" W/NUTS & WASHERS, HOT-DIP GALVANIZED - ASTM F1554 GRADE A36 -
 ASTM A563 ASTM A194
 EPOXY FDOT APPROVED, QPL #S937-0200
 (S937 STRUCTURAL ADHESIVE BONDING COMPOUND TYPE HSHV)
 PER SPEC 416 & 937

EXCLUDED:

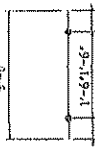
TRAFFIC CONTROL
 SITE PREPERATION / FREE AND CLEAN OF DEBRIS & TRASH

NOTES:

ALL WELDING CONFORMS TO ANSI/AWS D1.2 / 02

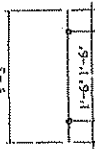
S 250

5'-0"



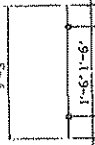
S 276 L T

5'-3"



S 280 L T

9'-3"



3-LINE

FIELD VERIFY ALL RAIL PRIOR TO FABRICATION

NOTE:
RAIL WILL BE FABRICATED IN 17' & 20' RAIL SECTIONS. TO PROPERLY MEET THE
SPECIFICATIONS FOR RAIL, THE RAIL MUST BE FABRICATED IN A MANNER
WHICH WILL BE APPROVED BY THE RAIL FABRICATOR. THE RAIL MUST BE
FABRICATED IN A MANNER WHICH WILL BE APPROVED BY THE RAIL FABRICATOR.
A SITE INSPECTION WILL BE MADE WHEN ALL CONCRETE PREPARATION
HAVE BEEN COMPLETED. THE SITE WILL BE SOLED FOR FINAL TOUGH
FOR FABRICATION.
BASED ON MATERIALS IN USE FOR CONCRETE, USUALLY BEING AS FINE OF ANY
STEEL, ANY YOU MAY WANT THE ADHESIVE ANCHOR TO BE INSTALLED.

ALUMINUM PIPE CUD RAIL

ALUMINUM METALS
1201 ALUMINUM DRIVE, ST. LOUIS, MO 63104
314-734-3377 • FAX 314-734-0190

GIBBS & REGISTER AME 357

S-3

C. O. #3

ITEM C

ISSUE C

CR-46A - COMPUTATION. BOOK CHECK.

160-4 TYPE B STABILIZATION

FOLLOWING AREAS - QUANTITIES NOT NOTED - CALCULATED ARE INCLUDED
W/ PROJECT TOTAL.

LT ROADWAY -

✓ STA 166+00.37 TO 168+60 - $259.63' \times 26' = \frac{6750.38 \text{ SF}}{9} = 750.04 \text{ SY}$

✓ STA 177+45.50 TO 180+05.50 - $266' \times 26' = \frac{6916 \text{ SF}}{9} = 768.44 \text{ SY}$

✓ STA 177+45.50 TO 179+55.50 - $210' \times 12' = \frac{2520 \text{ SF}}{9} = 280.0 \text{ SY}$

✓ STA 187+18 TO 189+53 = $235' \times 26' = \frac{6110 \text{ SF}}{9} = 678.90 \text{ SY}$

RT ROADWAY

STA 176+19 TO 177+45 = $126' \times 26' = \frac{3276 \text{ SF}}{9} = 364 \text{ SY}$

STA 185+91.50 TO 187+18 = $126.50' \times 26' = \frac{3289 \text{ SF}}{9} = 365.44 \text{ SY}$

POND NO 1 = 1927.86 SY

POND NO 2 = 1173.22 SY

TOTAL FOR PONDS 3,101.08 SY

TOTAL FOR ROADWAY 3,189.49

TOTAL = 6290.57 SY

56,615¹³

MISSING QUANTITIES ON STAB SUBGR REFLECT
ON LIME~~STICK~~ BASE AND ASPHALT QUANTITIES ALSO

\$182,926⁷⁴ 285-709 - optional base group 09 = 3189.49 SY

\$51,031⁸⁴ 331-72.24 TYPE S 2 1/2" = 3189.49 SY

\$31,894⁹⁰ 337-7-3 ASDH. CONC FC-3 1" = 3189.49 SY

C. O. #3

ITEM D

ISSUED



GIBBS & REGISTER, INC.

232 South Dillard Street
Winter Garden, Florida 34787
Telephone: (407) 654-6133
Facsimile: (407) 654-6134

December 19, 2007

Mr. Dean A. Hilborne
Sr. Project Administrator
HDR
104 Forrest Dr.
Sanford, FL 32773

Re: Seminole County: CC-0751A-06/TLR
CR46A Phase III, CR15 Country Club Rd. to Old Lake Mary Rd.
Subject: Forrest Drive DBI Proposal

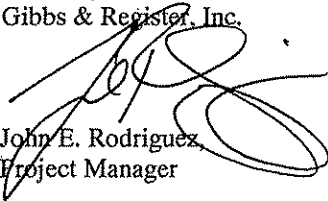
Dear Mr. Hilborne:

The purpose of this letter is to provide HDR with our change order proposal for additional drainage improvements on Forrest Dr. as described in your letter dated October 31, 2007.

Gibbs & Register, Inc. is prepared to complete this work for the lump sum amount of \$ 5,899.29. I have not included the sod restoration as this work can be paid for under the original contract. Attached you will find a detailed breakdown of the costs associated with this work.

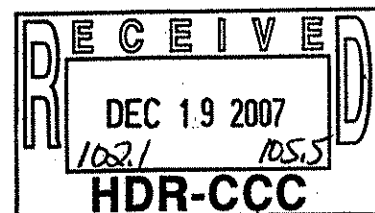
G&R reserves the right to request additional time for this added scope. If you have any questions, feel free to give me a call.

Sincerely,
Gibbs & Register, Inc.


John E. Rodriguez
Project Manager

cc: J07005:29

*Cost proposal
is approved
JAK
1/03/08*



J07005: 14		CHANGE ORDER SUMMARY								Date: 12/19/2007						
		GIBBS & REGISTER, INC. 530 S. MAIN ST. WINTER GARDEN, FLORIDA 34787 PHONE: (407) 654-6133 FAX: (407) 654-6134														
DESCRIPTION OF WORK: Forrest Dr. Additional Drainage Inlet (PART A: PIPE)																
LOCATION OF WORK: CR46A PHASE III																
LABOR					MATERIAL					EQUIPMENT						
CREW DESCRIPTION	NO.	TOTAL HOURS	HOURLY RATE	AMOUNT	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT	SIZE AND CLASS	QTY	EQUIP NO.	TOTAL Hours	HOURLY RATE	AMOUNT	
STANDARD TIME																
FOREMAN	1	14.00	\$30.00	\$420.00	TYPE C	1	EA	\$675.00	\$675.00	938 CAT LOADER	1		3.00	\$60.00	\$180.00	
GRADER OPERATOR	0	0.00	\$28.00	\$0.00	18" RCP	8	LF	\$18.00	\$144.00	314 EXCAVATOR	1		14.00	\$75.00	\$1,050.00	
EQUIPMENT OPERATOR	1	14.00	\$18.00	\$252.00	MISC.	1	LS	\$100.00	\$100.00	220 EXCAVATOR	1		0.00	\$85.00	\$0.00	
DUMP TRUCK DRIVER	0	0.00	\$20.00	\$0.00					\$0.00	330 EXCAVATOR	1		0.00	\$100.00	\$0.00	
WATER TRUCK DRIVER	0	0.00	\$17.00	\$0.00					\$0.00	416 BACKHOE	1		0.00	\$50.00	\$0.00	
PIPE LAYER	3	14.00	\$17.00	\$714.00					\$0.00	ROLLER	1		0.00	\$45.00	\$0.00	
CONCRETE FINISHER	0	0.00	\$18.00	\$0.00					\$0.00	GRADER	1		0.00	\$85.00	\$0.00	
LABORER	0	0.00	\$13.00	\$0.00					\$0.00	D41 DOZER	1		0.00	\$65.00	\$0.00	
OVERTIME									\$0.00	SKID STEER	1		0.00	\$40.00	\$0.00	
FOREMAN	0	0.00	\$45.00	\$0.00					\$0.00	MINI EXCAVATOR	1		0.00	\$40.00	\$0.00	
GRADER OPERATOR	0	0.00	\$42.00	\$0.00					\$0.00	SMALL EQUIP.	1		0.00	\$15.00	\$0.00	
EQUIPMENT OPERATOR	0	0.00	\$27.00	\$0.00	Materials Subtotal				\$919.00	CREW TRUCK	1		0.00	\$30.00	\$0.00	
DUMP TRUCK DRIVER	0	0.00	\$30.00	\$0.00	Sales Tax			6.5%	\$59.74	WATER TRUCK	1		0.00	\$45.00	\$0.00	
WATER TRUCK DRIVER	0	0.00	\$25.50	\$0.00	Material Markup			15%	\$146.81	DUMP TRUCK	1		0.00	\$55.00	\$0.00	
PIPE LAYER	0	0.00	\$25.50	\$0.00	TOTAL MATERIAL COSTS:				\$1,125.55	TRAFFIC ROLLER	1		0.00	\$40.00	\$0.00	
CONCRETE FINISHER	0	0.00	\$27.00	\$0.00	SUBCONTRACTORS					950 SIZE LOADER	1			\$85.00	\$0.00	
LABORER	0	0.00	\$19.50	\$0.00					\$0.00	CONCRETE PUMP	1		0.00	\$40.00	\$0.00	
				\$0.00					\$0.00	IDLE EQUIPMENT RATES						
				\$0.00					\$0.00	Equipment Trans.	1	0	0.00	\$175.00	\$0.00	
				\$0.00					\$0.00	938 LOADER IDLE	1	0	0.00	\$23.00	\$0.00	
				\$0.00					\$0.00	314 EXC. IDLE	1		0.00	\$33.00	\$0.00	
				\$0.00					\$0.00	220 EXC. IDLE	1		0.00	\$35.00	\$0.00	
				\$0.00					\$0.00	416 BACKHOE IDLE	1		0.00	\$18.00	\$0.00	
				\$0.00					\$0.00	ROLLER IDLE	1		0.00	\$19.00	\$0.00	
				\$0.00					\$0.00	GRADER IDLE	1		0.00	\$38.00	\$0.00	
				\$0.00					\$0.00	DOZER IDLE	1		0.00	\$33.00	\$0.00	
				\$0.00					\$0.00	SKID STEER IDLE	1			\$18.00	\$0.00	
				\$0.00					\$0.00	MINI EXC. IDLE	1			\$18.00	\$0.00	
				\$0.00					\$0.00	HYD. SHORING	1		0.00	\$650.00	\$0.00	
				\$0.00					\$0.00						\$0.00	
				\$0.00					\$0.00						\$0.00	
Direct Labor				\$1,386.00					\$0.00	Equipment Subtotal					\$1,230.00	
Burden			56.0%	\$776.16					\$0.00	Equipment Markup				15%	\$184.50	
Subtotal				\$2,162.16	Subcontractor Subtotal				\$0.00	TOTAL EQUIPMENT COSTS:					\$1,414.50	
Labor Markup			15.0%	\$324.32	Sub Markup			5%	\$0.00							
TOTAL LABOR COSTS:				\$2,486.48	TOTAL SUB COSTS:				\$0.00							

Note: _____

TOTALS	LABOR	\$2,486.48
	MATERIALS	\$1,125.55
	EQUIPMENT	\$1,414.50
	SUBCONTRACTORS	\$0.00
	SUB-TOTAL	\$5,026.53
	BOND	0.00%
	TOTAL DUE	\$5,026.53

J07005: 14	CHANGE ORDER SUMMARY		Date:	12/19/2007	
	GIBBS & REGISTER, INC. 530 S. MAIN ST. WINTER GARDEN, FLORIDA 34787 PHONE: (407) 654-6133 FAX: (407) 654-6134				
DESCRIPTION OF WORK: Forrest Dr. Additional Drainage Inlet (PART B: GRADING)					
LOCATION OF WORK: CR46A PHASE III					

LABOR					MATERIAL					EQUIPMENT					
CREW DESCRIPTION	NO.	TOTAL HOURS	HOURLY RATE	AMOUNT	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT	SIZE AND CLASS	QTY	EQUIP NO.	TOTAL Hours	HOURLY RATE	AMOUNT
STANDARD TIME							EA			938 CAT LOADER	1			\$60.00	
FOREMAN	1	3.00	\$30.00	\$90.00			LF			314 EXCAVATOR	1			\$75.00	
GRADER OPERATOR			\$28.00				LS			220 EXCAVATOR	1			\$85.00	
EQUIPMENT OPERATOR	1	7.00	\$18.00	\$126.00						330 EXCAVATOR	1			\$100.00	
DUMP TRUCK DRIVER			\$20.00							416 BACKHOE	1			\$50.00	
WATER TRUCK DRIVER			\$17.00							ROLLER	1			\$45.00	
PIPE LAYER			\$17.00							GRADER	1			\$85.00	
CONCRETE FINISHER			\$18.00							D41 DOZER	1			\$65.00	
LABORER	1	7.00	\$13.00	\$91.00						SKID STEER	1		7.00	\$40.00	\$280.00
OVERTIME										MINI EXCAVATOR	1			\$40.00	
FOREMAN			\$45.00							SMALL EQUIP.	1			\$15.00	
GRADER OPERATOR			\$42.00							CREW TRUCK	1			\$30.00	
EQUIPMENT OPERATOR			\$27.00		Materials Subtotal					WATER TRUCK	1			\$45.00	
DUMP TRUCK DRIVER			\$30.00		Sales Tax					DUMP TRUCK	1			\$55.00	
WATER TRUCK DRIVER			\$25.50		Material Markup					TRAFFIC ROLLER	1			\$40.00	
PIPE LAYER			\$25.50		TOTAL MATERIAL COSTS:					950 SIZE LOADER	1			\$85.00	
CONCRETE FINISHER			\$27.00		SUBCONTRACTORS					CONCRETE PUMP	1			\$40.00	
LABORER			\$19.50							IDLE EQUIPMENT RATES					
										Equipment Trans.	1			\$175.00	
										938 LOADER IDLE	1			\$23.00	
										314 EXC. IDLE	1			\$33.00	
										220 EXC. IDLE	1			\$35.00	
										416 BACKHOE IDLE	1			\$18.00	
										ROLLER IDLE	1			\$19.00	
										GRADER IDLE	1			\$38.00	
										DOZER IDLE	1			\$33.00	
										SKID STEER IDLE	1			\$18.00	
										MINI EXC. IDLE	1			\$18.00	
										HYD. SHORING	1			\$650.00	
Direct Labor				\$307.00											
Burden			56.0%	\$171.92											
Subtotal				\$478.92	Subcontractor Subtotal					Equipment Subtotal					\$280.00
Labor Markup			15.0%	\$71.84	Sub Markup			5%		Equipment Markup				15%	\$42.00
TOTAL LABOR COSTS:				\$550.76	TOTAL SUB COSTS:					TOTAL EQUIPMENT COSTS:					\$322.00

Note: _____	TOTALS	LABOR	\$550.76
_____		MATERIALS	
_____		EQUIPMENT	\$322.00
_____		SUBCONTRACTORS	
_____		SUB-TOTAL	\$872.76
_____		BOND	
_____		TOTAL DUE	\$872.76

Ries, Linda L.

From: Douglas, Steven [sdouglas@seminolecountyfl.gov]
Sent: Tuesday, October 30, 2007 3:28 PM
To: Ries, Linda L.
Subject: FW: CR-46A Phase III Project
Attachments: Forrest Dr Drainage Structure.pdf

From: Douglas, Steven
Sent: Tuesday, October 30, 2007 3:26 PM
To: 'Hilborne, Dean'; 'Ries, Linda L.'
Cc: Glennon, William
Subject: FW: CR-46A Phase III Project

Dean,

The narrative and sketch are acceptable to the County. Thank you. Please forward the drainage improvement narrative and sketch to the contractor for a cost proposal. Also, please keep in mind that the County would like to see a gradual slope to the proposed D.B.I.

Thanks,

Steve

From: Ries, Linda L. [mailto:Linda.Ries@hdrinc.com]
Sent: Monday, October 15, 2007 4:28 PM
To: Glennon, William
Cc: Douglas, Steven; Hilborne, Dean
Subject: CR-46A Phase III Project

Good Afternoon,

Bill, attached is a sketch and narrative regarding the added drainage structure on Forrest Drive. Please review. We will not forward to the Contractor until we hear from either you or Steve that it's good to go.

Linda L. Ries, CPS
OSC | CEI Office Manager
HDR ONE COMPANY | Many Solutions
HDR Construction Control Corporation
104 Forrest Drive | Sanford, FL | 32773-4713
Phone: 407.324.8035 | Fax: 407.324.8323 | Email: linda.ries@hdrinc.com
www.hdrinc.com

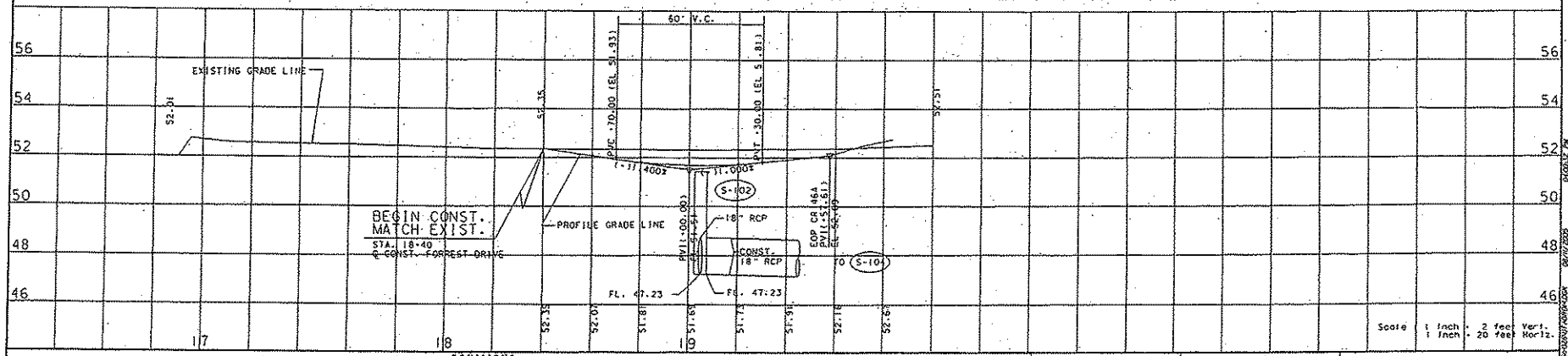
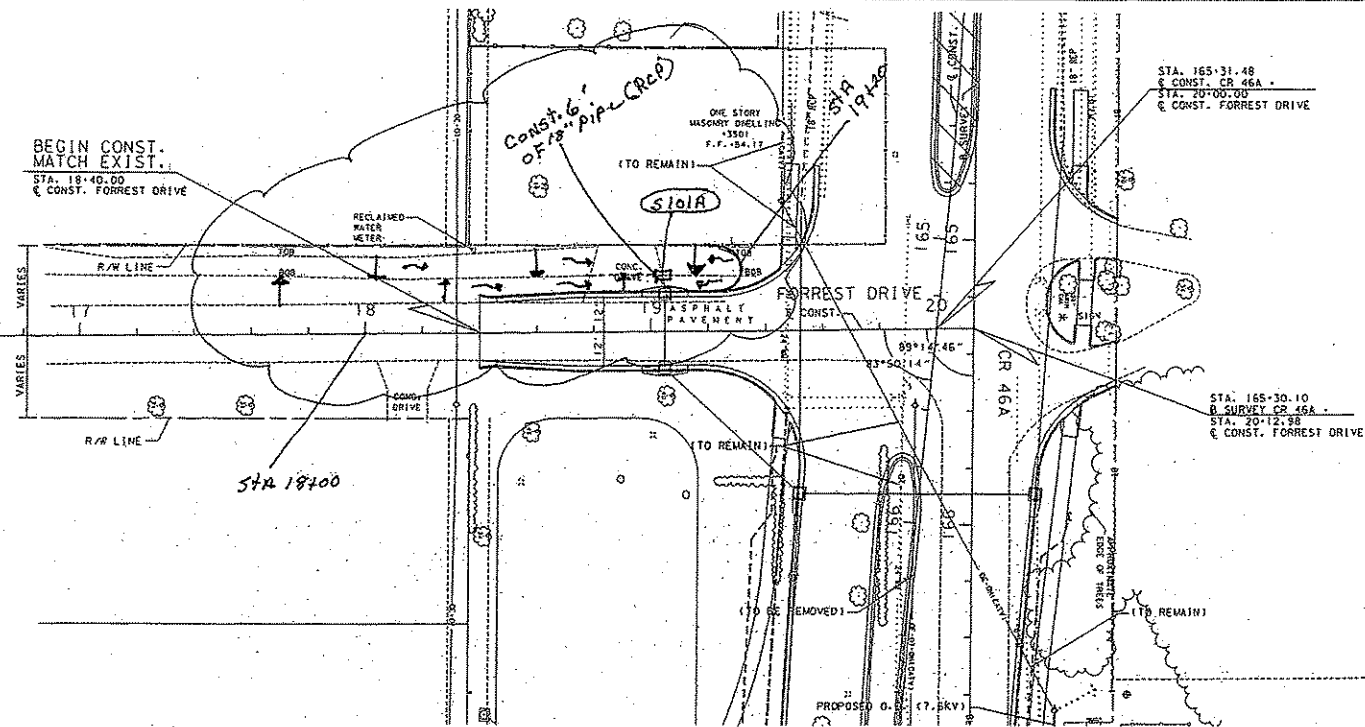
-----Florida has a very broad Public Records Law. Virtually all written communications to

10/30/2007

or from State and Local Officials and employees are public records available to the public and media upon request. Seminole County policy does not differentiate between personal and business emails. E-mail sent on the County system will be considered public and will only be withheld from disclosure if deemed confidential pursuant to State Law.****-

-****Florida has a very broad Public Records Law. Virtually all written communications to or from State and Local Officials and employees are public records available to the public and media upon request. Seminole County policy does not differentiate between personal and business emails. E-mail sent on the County system will be considered public and will only be withheld from disclosure if deemed confidential pursuant to State Law.****-

BEGIN CONST.
MATCH EXIST.
STA. 18+40.00
CONST. FORREST DRIVE



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
10/10/01	WCH	ADD DRAINAGE STN 5-101-A									

SEMINOLE COUNTY
ENGINEERING DEPARTMENT

PEC

PROFESSIONAL
ENGINEERING
CONSULTANTS

UTILITY
ADJUSTMENTS

Scale 1 inch = 2 feet
1 inch = 20 feet



October 31, 2007
Correspondence No. 46-07

Sent via Hand Delivery

Gibbs & Register, Inc.
Attn: John Rodriguez, Project Manager
232 South Dillard Street
Winter Garden - FL 34787

RE: Seminole County CC-0751A-06/TLR
CR-46A Phase III, CR-15 Country Club Rd to Old Lake Mary Rd
FORREST DRIVE

Dear Mr. Rodriguez:

Additional drainage will be needed behind the F-curb in the Lt. roadway on Forrest Drive from station 18+00 to station 19+20± Lt.

A new drainage structure will need to be installed (S-101-A) behind existing structure S-101 at station 19+05 Lt. roadway. The new structure will be a DBI Type "C" per Standard Index 232 sheet 1 of 5. Flow line elevation should be 47.50 and the elevation of the grate should be at 51.28. Drainage structure S-101 will need to be modified to receive the 6-LF of 18-in. RCP from proposed structure S-101-A. Cut and remove F-curb crossing the existing ditch at station 18+40. Grade new ditch from station 18+30± to new DBI S-101-A at station 19+05. Back grade ditch from station 19+20 to structure S-101-A.

Please provide HDR with a detailed cost proposal for this additional work. Upon review and approval of G&R's cost proposal a change order will be prepared to compensate G&R for this work. If you have any questions or further information is required please contact me.

Yours truly,

Dean A. Hilborne
Sr. Project Administrator

DAH:llr

c: William Glennon, P.E., Seminole County
File 102.2; 105.5

Ries, Linda L.

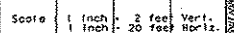
From: Ries, Linda L.
Sent: Monday, October 15, 2007 4:28 PM
To: William M. Glennon (wglennon@seminolecountyfl.gov)
Cc: Steven Douglas (sdouglas@seminolecountyfl.gov); Hilborne, Dean
Subject: CR-46A Phase III Project
Attachments: Forrest Dr Drainage Structure.pdf

Good Afternoon,

Bill, attached is a sketch and narrative regarding the added drainage structure on Forrest Drive. Please review. We will not forward to the Contractor until we hear from either you or Steve that it's good to go.

Linda L. Ries, CPS
OSC | CEI Office Manager
HDR ONE COMPANY | Many Solutions
HDR Construction Control Corporation
104 Forrest Drive | Sanford, FL | 32773-4713
Phone: 407.324.8035 | Fax: 407.324.8323 | Email: linda.ries@hdrinc.com
www.hdrinc.com

10/15/2007

SEMINOLE COUNTY
ENGINEERING DEPARTMENT

UTILITY ADJUSTMENTS



ONE COMPANY
Many Solutions™

Project:

Computed:

Date:

Subject:

Checked:

Date:

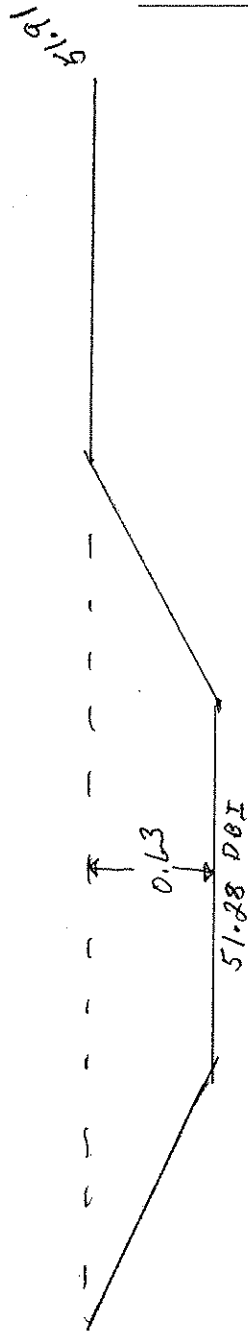
Task:

Page:

of:

Job #:

No:



53

52 — 51.91 P top

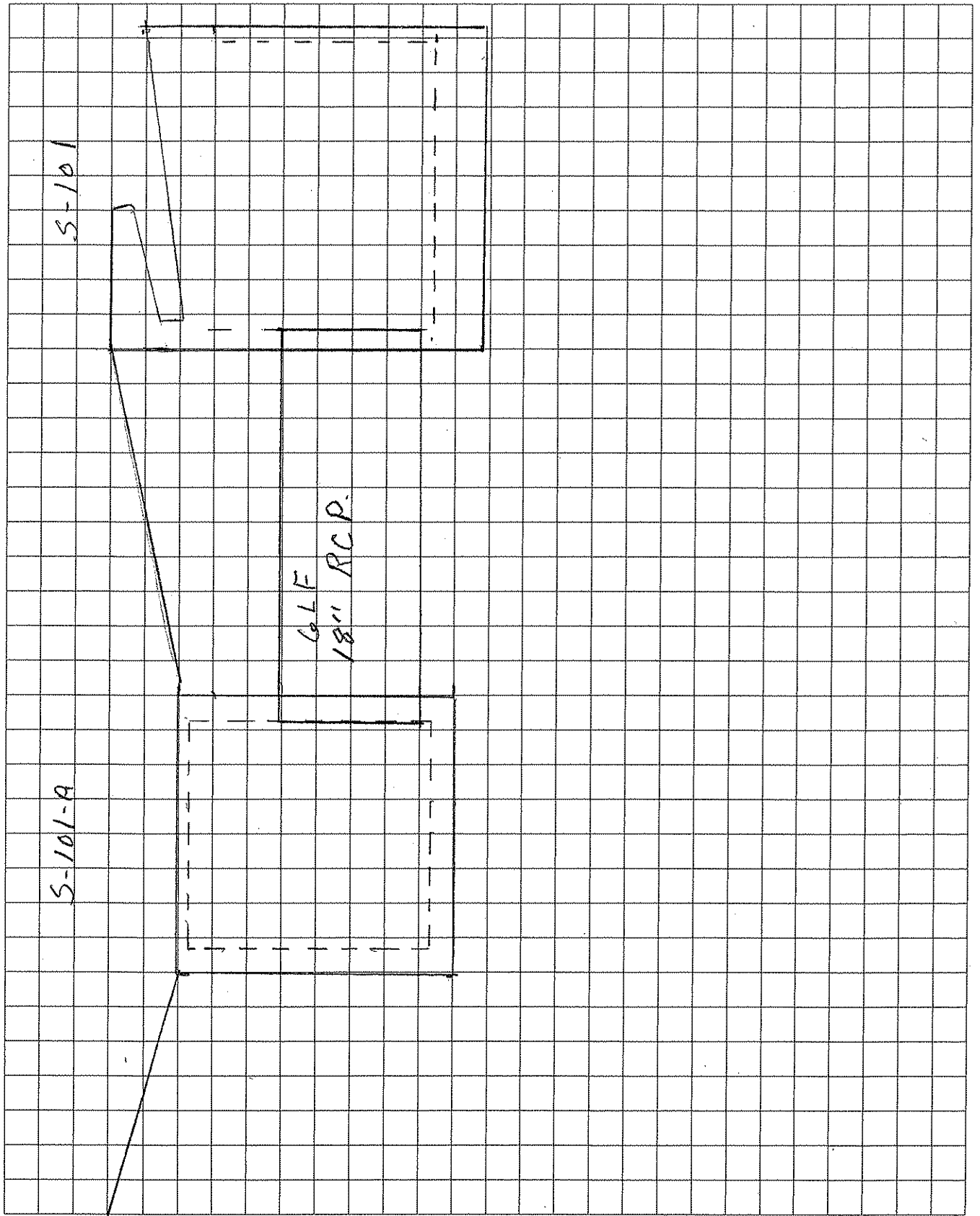
— 51.48 Existing Swale
— DBI top 51.28

51

50

49

48



CR-46A PHASE III

10/30/07

TBM = 53.80'

- STA 166+00 ± RT& CR46A

HT = 3.22'

NAIL IN WOOD POWER POLE

57.02'

Elev. TOP OF P-6 INLET TOP

S-101

5.11
51.91'

Elev. 5' BACKSIDE OF S-101 -

@ NATURAL GROUND

4.93'
52.09'

Elev. - E EXISTING SWALE

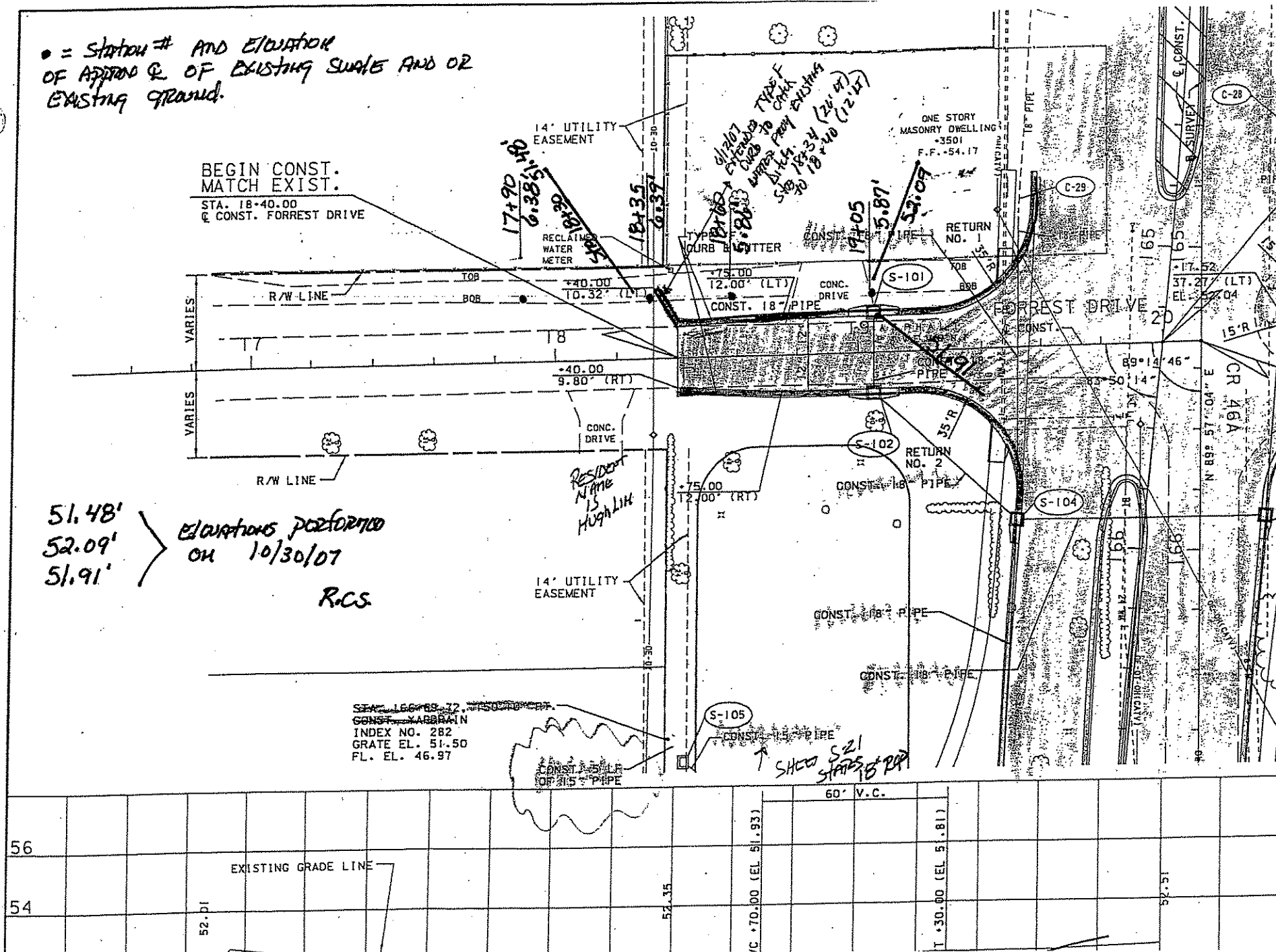
FURTEST DE - STA 18+30 ± L&E.

5.54
51.48'

R. STARKS

BEGIN CONST.
MATCH EXIST.
STA. 18+40.00
@ CONST. FORREST DRIVE

SEAT. 166-69-72. ISO 100-100
CONST. YABDA IN
INDEX NO. 282
GRATE EL. 51.50
FL. EL. 46.97



C. O. #3

ITEM E

Contract Time – No Backup Required